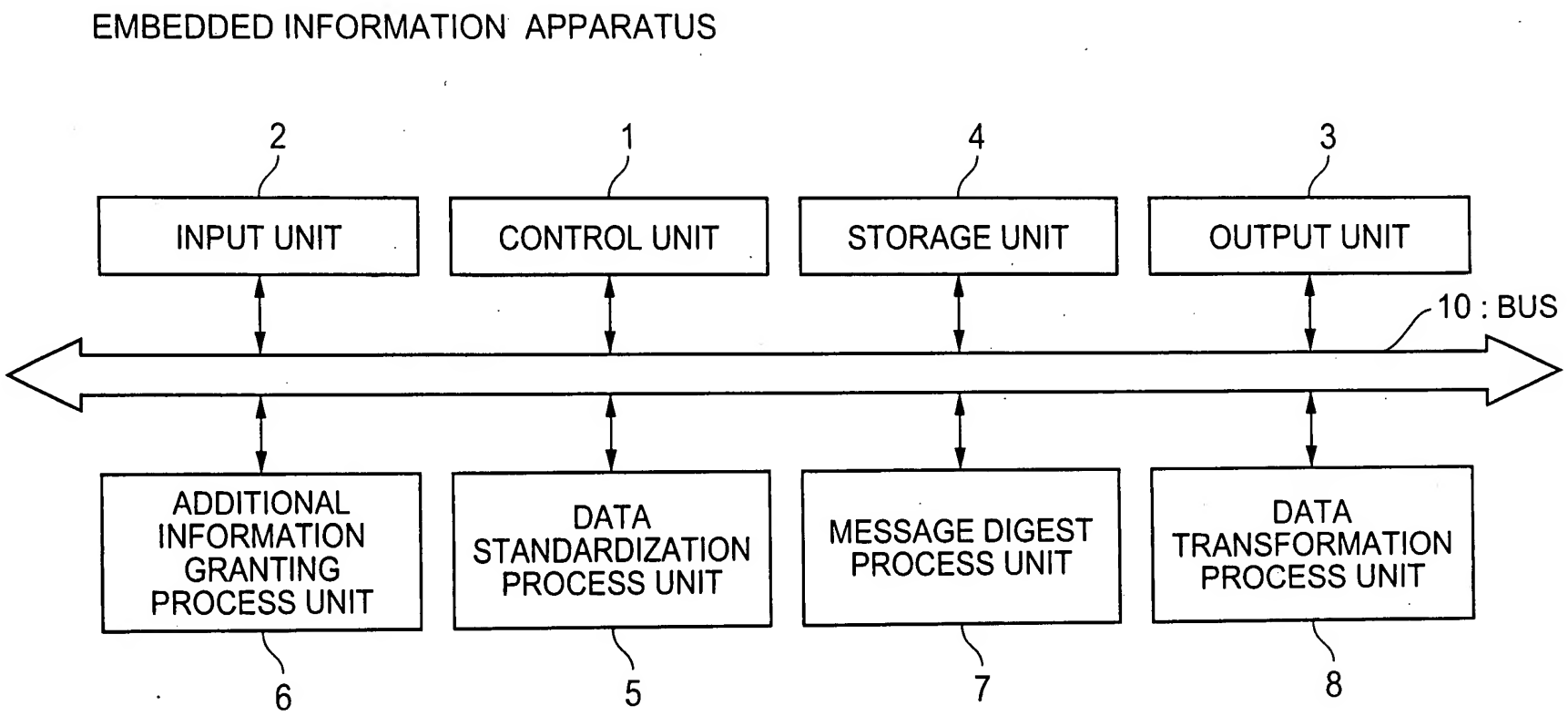
EMBEDDED INFORMATION APPARATUS
2
1
4
3
INPUT UNIT
CONTROL UNIT
STORAGE UNIT
OUTPUT UNIT
10 : BUS
ADDITIONAL INFORMATION GRANTING PROCESS UNIT
DATA STANDARDIZATION PROCESS UNIT
MESSAGE DIGEST PROCESS UNIT
DATA TRANSFORMATION PROCESS UNIT
6
5
7
8

FIG. 1

··· EXAMPLE OF VRML.....

```
#VRML V1.0ascii
Coordinate3 {
        point [
                020,
                -101,
                101,
                10-1,
                -10-1,
                0-20
        ]
}
IndexedFaceSet {
        coordIndex [
                0.1,2,-1.
                0.2,3.-1,
                0.3,4,-1.
                0,4,1,-1,
                5.1.2,-1,
                5,2,3.-1,
                5,3,4.-1.
                5,4.1,-1
        ]
}
```

FIG. 2

··· EXAMPLE OF RAW TRIANGLE.....

```
1.  0   -1.  1   0.  8
3.  5   2.  7   6.  5
4.  8   -2.  1   3.  3
-1.  2   2.  1  -0.  9
     5.  3   -1.  1   -2.  8
4.  1   1.  1   -0.  9
```

FIG. 3

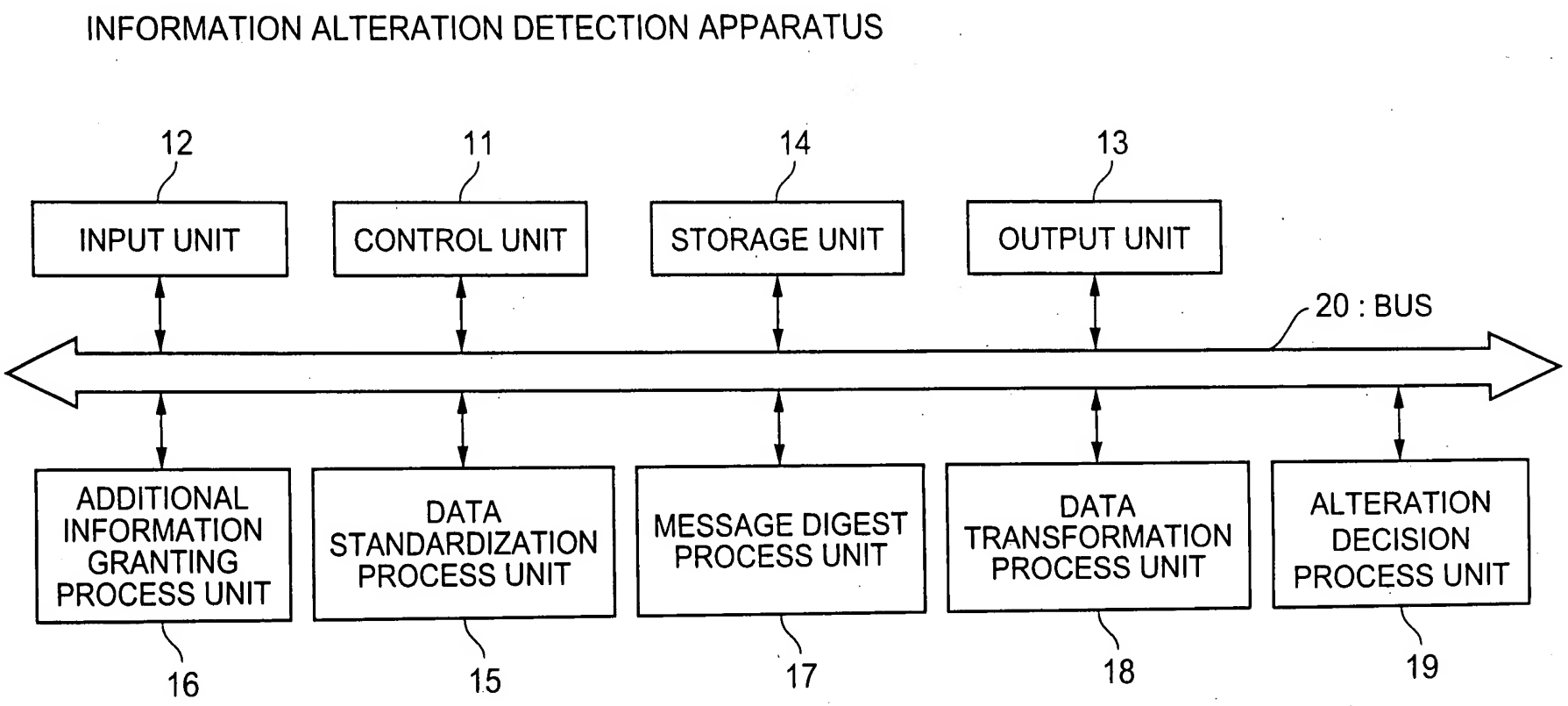
INFORMATION ALTERATION DETECTION APPARATUS
12
11
14
13
INPUT UNIT
CONTROL UNIT
STORAGE UNIT
OUTPUT UNIT
20 : BUS
ADDITIONAL INFORMATION GRANTING PROCESS UNIT
DATA STANDARDIZATION PROCESS UNIT
MESSAGE DIGEST PROCESS UNIT
DATA TRANSFORMATION PROCESS UNIT
ALTERATION DECISION PROCESS UNIT
16
15
17
18
19

FIG. 4

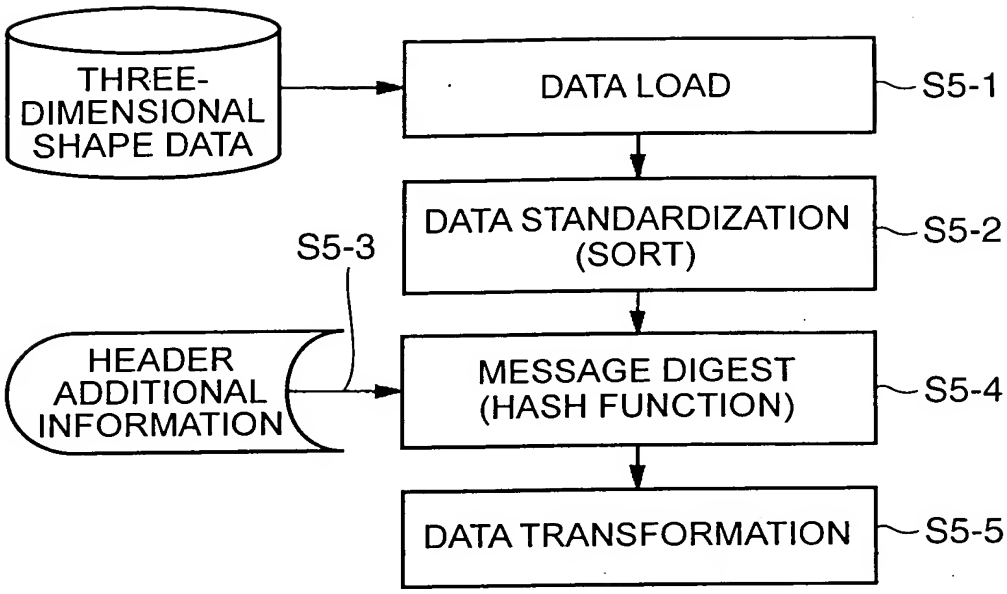
THREE-DIMENSIONAL SHAPE DATA
DATA LOAD
S5-1
DATA STANDARDIZATION (SORT)
S5-2
S5-3
HEADER ADDITIONAL INFORMATION
MESSAGE DIGEST (HASH FUNCTION)
S5-4
DATA TRANSFORMATION
S5-5

FIG. 5

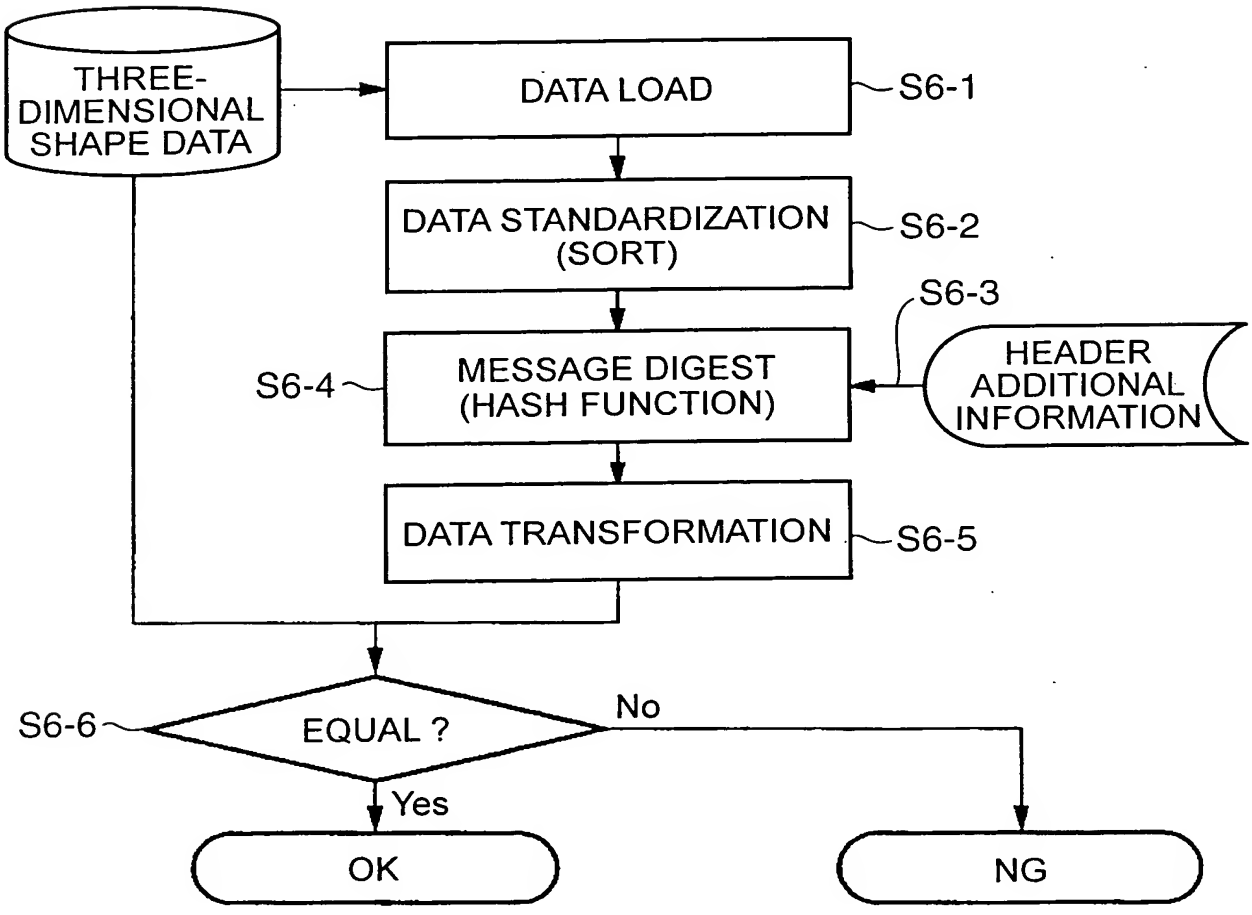
THREE-DIMENSIONAL SHAPE DATA
DATA LOAD
S6-1
DATA STANDARDIZATION (SORT)
S6-2
S6-3
S6-4
MESSAGE DIGEST (HASH FUNCTION)
HEADER ADDITIONAL INFORMATION
DATA TRANSFORMATION
S6-5
S6-6
EQUAL ?
No
Yes
OK
NG

FIG. 6